Outdoor 2.5G PoE++ Ethernet Surge Protector

TI-OS300 (V1)

- Two 2.5Gbps RJ45 Ethernet ports and ground terminal
- Supports PoE (15.4W), PoE+ (30W), and PoE++ (up to 95W) devices
- Operating temperature range of -40°– 75° C (-40° – 167° F)
- IP67-rated metal enclosure and Ethernet cable glands
- Line to line and line to ground protection modes
- Gas discharge tube (GDT) protection with a nominal discharge current (8/20µs) of 10kA and clamping voltage of 20V@1kA
- Compliant with shock, freefall, vibration, IEC 61643-21, and IEC 61000-4-5 standards
- Compact design with detachable mounting bracket
- NDAA / TAA compliant (U.S. and Canada only)

TRENDnet's Outdoor 2.5G PoE++ Surge Protector, model TI-OS300, is installed inline using Ethernet cabling to protect and prevent damage to internal low voltage network devices from electrical surges caused by lightning strikes, electrical overloads, and faulty or damaged wiring. The surge protector supports up to 2.5Gbps networking speeds and PoE++ (95W) devices. The surge protector also features an IP67-rated metal enclosure, detachable mounting bracket, Ethernet cable glands for water protection, and wide operating temperature range of -40°– 75° C (-40° – 167° F) suitable for outdoor installations.

Surge Protection

Gas discharge tube (GDT) protection with a nominal discharge current (8/20µs) of 10kA, clamping voltage of 20V@1kA, and compliant with IEC 61643-21 and IEC 61000-4-5 testing standards

2.5G Networking Speeds

Features two 2.5Gbps RJ45 Ethernet ports and compatible with PoE++ devices (up to 95W)

Industrial Grade Design

Built for industrial network environments, with an IP67 metal enclosure, Ethernet cables glands for water protection, compliance with shock, freefall, vibration, and an operating temperature range of -40°– 75° C (-40° – 167° F).

FEATURES

2.5G Networking
Features two 2.5Gbps RJ45 Ethernet ports (Line In, Device out)

Surge Protection
Gas discharge tube (GDT) protection with a nominal discharge current (8/20µs) of 10kA and clamping voltage of 20V@1kA

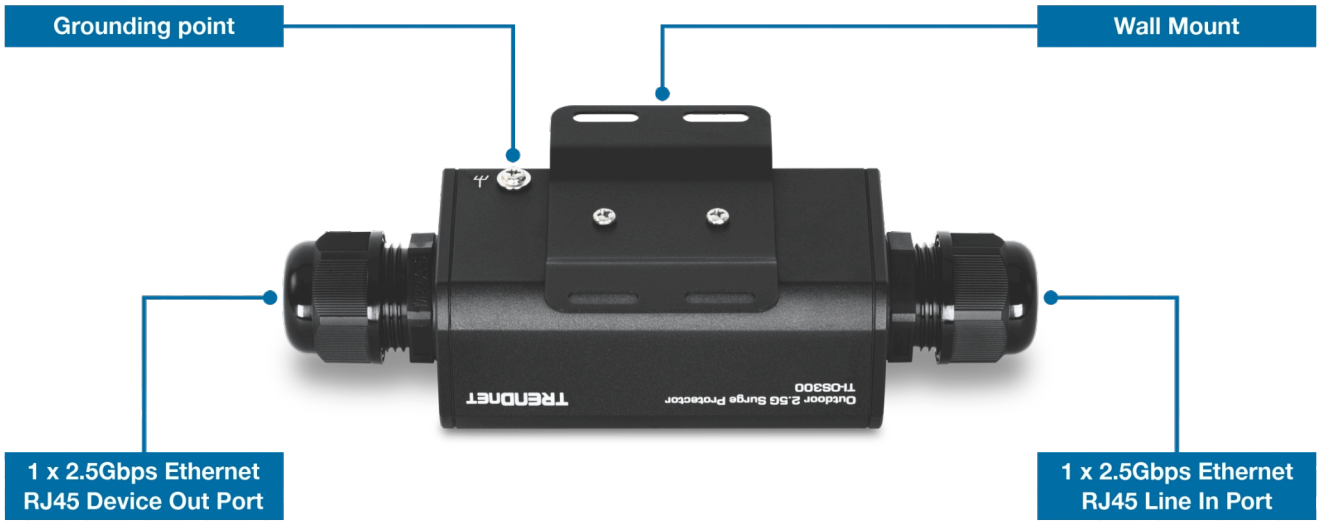
PoE Support
Compatible with PoE (15.4W), PoE+ (30W), and PoE++ (up to 95W) devices

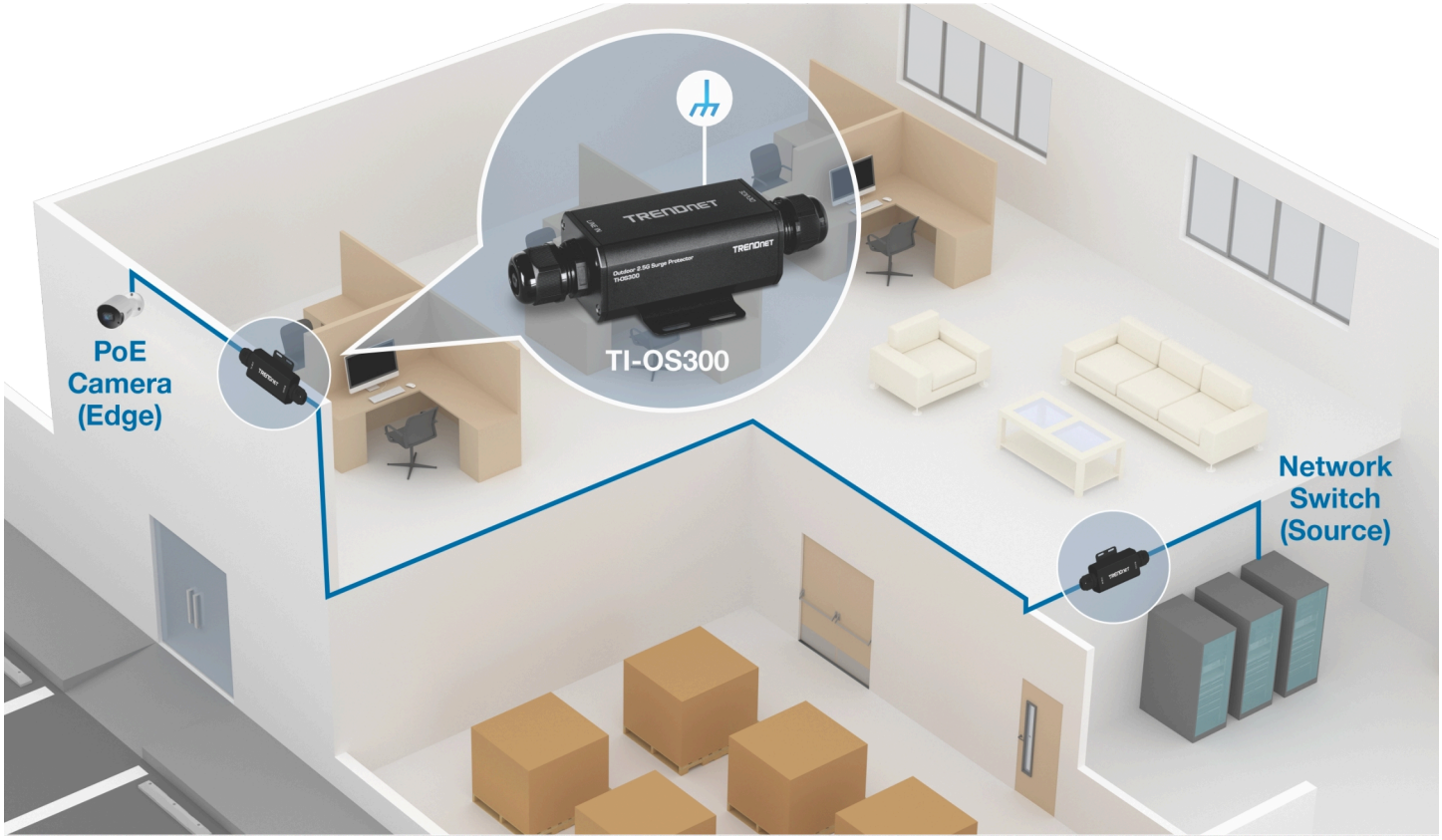
Industrial Design
IP67-rated metal enclosure and Ethernet cable glands for water and dust protection

Wide Temperature Range
Operates within a wide temperature range of -40°– 75° C (-40° – 167° F) suitable for outdoor installations

Compliance
Compliant with shock (EN 60068-2-27), freefall (EN 60068-2-31, vibration (EN 60068-2-6), IEC 61643-21 (Low voltage surge protective devices), and IEC 61000-4-5 (Surge immunity) standards

NETWORKING SOLUTION





SPECIFICATIONS

Device Interface
- 1 x 2.5Gbps Ethernet RJ45 Line In port
- 1 x 2.5Gbps Ethernet RJ45 Device out port
- Ground terminal

Nominal Discharge Current (8/20µs)
- 10kA+

Nominal PoE Voltage
- <60V

Cable Impedance
- 100 ohms

Clamping Voltage
- 20V@1kA (Line to Line / Line to Ground)

DC Spark-Over Voltage
- 90V @ 100V/s

Impulse Spark-Over Voltage
- 700V @ 1kV/µs max.

Insulation Resistance
- 1G ohm @ 50V max.

Surge Protector Type
- Gas Discharge Tube (GDT)

Data Line Protection
- Up to 2.5Gbps

Protection Modes
- Line to Line
- Line to Ground

PoE
- PoE current: 1.6A (2 pairs), 3.2A (4 pairs)
- PoE Mode Support: Mode A, Mode B
- Supports PoE (15.4W), PoE+ (30W), PoE++ (up to 95W)

Enclosure
- IP67 rated
- Detachable mounting bracket

MTBF
- 2,097,667 hrs @ 25° C

Operating Temperature
- -40° – 75° C (-40° – 167° F)

Operating Humidity
- Max. 95% non-condensing

Dimensions (L x W x H)
- 170 x 55mm x 42mm (6.7 x 2.2 x 1.7 in.)

Weight
- 298g (10.5 oz.)

Certifications
- CE
- FCC
- LVD
- Shock (EN 60068-2-27)
- Freefall (EN 60068-2-31)
- Vibration (EN 60068-2-6)
- Low voltage surge protective devices (IEC 61643-21)
- Surge immunity (IEC 61000-4-5)

Warranty
- 3 year

Package Contents
- TI-OS300
- 2 x Detachable cable glands
- Mounting bracket

All references to speed are for comparison purposes only. Product specifications, size, and shape are subject to change without notice, and actual product appearance may differ from that depicted herein.

TRENDnet offers a lifetime warranty for all of its metal-enclosed network switches that have been purchased in the United States/Canada on or after 1/1/2015. Cooling fan and internal power supply carry a one-year warranty.

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